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## Patents

Patents 1 - 10 on **hybrid digital watermark system**. (0.33 seconds)

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### Watermarking method and apparatus for compressed digital video

US Pat. 5809139 - Filed Sep 13, 1996 - Vivo Software, Inc.

Once the signal is received and decrypted, a **watermark** is applied. ... 1 is a schematic overview of a **digital** video transmission **system** having **digital** ...

### Embedding a digital signature in a video sequence

US Pat. 5960081 - Filed Jun 5, 1997 - Cray Research, Inc.

Implementation of the **Watermark System** The software implementation of the .... and the third **hybrid** criterion (size of the motion 60 vectors) dominates ...

### Proprietary watermark system for secure digital media and content distribution

US Pat. 7043051 - Filed Feb 20, 2002 - LG Electronics Inc.

21, 2001, in the name of inventors Vsevolod M. Kuzmich and Igor O. 10 Ivanov, titled "Propriety **Watermark System** for Secure **Digital** Media and Content ...

### Optimization methods for the insertion, protection, and detection of digital ...

US Pat. 5889868 - Filed Jul 2, 1996 - The Dice Company

**Hybrid** coders com- 5 bine both subband and transform coding, again with the ...

It is important that the noise signature of a -<sup>^</sup> **digital watermark** be ...

### Optimization methods for the insertion, protection, and detection of digital ...

US Pat. 6522767 - Filed Mar 30, 1999 - Wistaria Trading, Inc.

**Hybrid** coders combine both subband and transform coding, again with the ultimate goal ... It is important that the noise signature of a **digital watermark** be ...

### Method and system for digital watermarking

US Pat. 7007166 - Filed Apr 7, 2000 - Wistaria Trading, Inc.

It is envisioned that systems that use a **hybrid** approach, ... Optimization Mechanisms and Techniques Another issue of **digital watermark system** which must be ...

### Digital watermark decoding method

US Pat. 6700990 - Filed Sep 29, 1999 - Digimarc Corporation

In a **hybrid system**, the telephone and cellular carrier each have a ... up by the microphone 2016 and converted to **digital** form by the A/D converter 2018. ...

### MPEG2 moving picture encoding/decoding system

US Pat. 6310962 - Filed Aug 19, 1998 - Samsung Electronics Co., Ltd.

The second method is a **digital watermark** method with the purpose of preventing the ... MPEG encoding is a **hybrid** type lossy coding technique wherein the ...

### Apparatus and method for halftone hybrid screen generation

US Pat. 6252675 - Filed May 8, 1998 - Xerox Corporation

Stochastic screens have been shown of value in **digital** watermarking. ... detail while with a change in halftone, other shaded areas may receive a **watermark**. ...

Tile-based **digital** watermarking techniques

US Pat. 6879701 - Filed Sep 29, 1999 - Digimarc Corporation

If desired, a **digital** signal processing 5 board can be employed to offload certain

.... In a **hybrid system**, the telephone and cellular carrier each have a ...

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digital watermark system with robustness

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## Patents

Patents 1 - 10 on digital watermark system with robustness. (0.20 seconds)

Identification/authentication system using robust, distributed coding

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US Pat. 5745604 - Filed Mar 15, 1996 - Digimarc Corporation

DICE Digital Watermark System, Q&amp;A, ... 1016-1020. van Schyndel et al., 'Towards a Robust Digital Watermark.' ACCV '95, vol 2, Dec., 1995, pp. 504-508. ...

Method for human-assisted random key generation and application for digital ...

US Pat. 5822432 - Filed Jan 17, 1996 - The Dice Company

A digital Watermark, pp. 86-90. Second Asian Image Processing Conference, Singapore, Dec. 6-8, 1995, vol. 2, RG van Schyndel et al. ...

Digital watermarking employing both frail and robust watermarks

US Pat. 6574350 - Filed Feb 3, 2000 - Digimarc Corporation

Microsoft Response to cfp for Technology Solutions to Screen Digital Audio ...

Wolfgang et al., "A Watermark for Digital Images," Computer Vision and Image ...

Robust digital watermarking

US Pat. 6154571 - Filed Jul 17, 1998 - NEC Research Institute, Inc.

5, 1996, entitled "Digital Watermarking", which is incorporated herein by

references, describes storing watermark information into subimages and extracting ...

Method and system for digital watermarking

US Pat. 5905800 - Filed Mar 25, 1998 - The Dice Company

A digital Watermark, pp. 86-90. Second Asian Image Processing Conference, Singapore, Dec. 6-8, 1995, vol. 2, RG van Schyndel et al. ...

Digital watermarking in a perceptually uniform domain

US Pat. 6792129 - Filed Aug 23, 2000 - Sharp Laboratories of America

For example, when a watermark is applied to a visual object intended for human viewing, the watermarking system can exploit various properties of the human ...

Robust digital watermarking

US Pat. 6278792 - Filed Apr 26, 2000 - NEC Research Institute, Inc.

5, 1996, entitled "Digital Watermarking", which is incorporated herein by

references, describes storing watermark 15 information into subimages and ...

Digital watermarking systems and methods

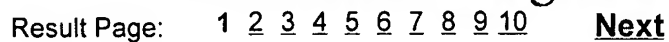
US Pat. 7006661 - Filed Oct 21, 2002

For broadcast video, a set-top-box (STB) is designed to be as inexpensive as possible, but for use in a watermark embedding/decoding system, ...

Robust digital watermarking

US Pat. 6738493 - Filed Apr 26, 2000 - NEC Laboratories America, Inc.

The **watermark system** has been integrated into a MPEG-2 like compression scheme ...



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fragile control bits and robust control bits

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## Patents

Patents 1 - 10 on fragile control bits and robust control bits. (0.04 seconds)

### Method and apparatus for detecting processing stages applied to a signal

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US Pat. 7046808 - Filed Mar 24, 2000 - Verance Corporation

The output **control** 11 also may receive a user input. Below, we discuss general issues surrounding the design 40 of **robust** and **fragile** watermarks before we ...

### Watermarking recursive hashes into frequency domain regions

US Pat. 6683966 - Filed Oct 11, 2000 - Digimarc Corporation

**"Fragile"** in the context of watermark applications generally refers to an ...or nearly imperceptible watermark that is **robust** to common transformations, ...

### Halftone watermarking and related applications

US Pat. 6694041 - Filed Oct 11, 2000 - Digimarc Corporation

Both the **robust** and **fragile** halftone watermark may also carry other information.They may be used to carry a message, including usage **control** instructions ...

### Robust header compression in packet communications

US Pat. 6754231 - Filed Jun 18, 1999 - Telefonaktiebolaget LM Ericsson (publ)

When difference encoding is used, the compression scheme can be **fragile**, ...eg, Jon Postel, Transmission **Control** Protocol, DARPA RFC, January 1980, ...

### Low visibility watermark using time decay fluorescence

US Pat. 6718046 - Filed Aug 31, 2001 - Digimarc Corporation

**Fragile** Watermark A UV out-of-phase watermark is **fragile** since an ..., other watermarks, such as **robust** watermarks. The UV watermark announces a copy or ...

### Convolutional coding and decoding method and system

US Pat. 7080311 - Filed Sep 30, 2002 - Alcatel

The **bits** transmitted are constituted by drawings. concatenating the payload ...the invention proposes an encoding **robust** locations and **fragile** locations of ...

### Halftone watermarking and related applications

US Pat. 6760464 - Filed Apr 20, 2001 - Digimarc Corporation

Both the **robust** and **fragile** halftone watermark may also carry other information.They may be used to carry a message, including usage **control** instructions ...

### Performing multicast communication in computer networks by using overlay routing

US Pat. 6611872 - Filed Jun 1, 1999 - FastForward Networks, Inc.

In short, maintaining a decentralized, **robust** address allocation ... the root domain prefix is simply treated as additional **bits** of the multicast address. ...

### Rotationally invariant trellis coding incorporating transparent binary ...

US Pat. 5621761 - Filed Dec 9, 1994 - General Instrument Corporation of Delaware

Fast recovery from phase ambiguities is very important for **robust** modem design.  
... the carrier recovery loop is often the most **fragile**, resulting in noise. ...

Method and apparatus to protect media existing in an insecure format

US Pat. 7127744 - Filed Mar 7, 2001 - Digimarc Corporation

25 The problem with **robust** embedded data based methods of protecting content in  
... thus being **fragile**, and another layer is embedded at a higher-level, ...

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